

$$F_{\nabla} = 2\pi \cdot r^3 \frac{\sqrt{\epsilon_B}}{c} \left(\frac{\epsilon - \epsilon_B}{\epsilon + 2\epsilon_B} \right) (\nabla \cdot I)$$

F_{∇} = Optical force on particle towards higher intensity

r = Radius of particle

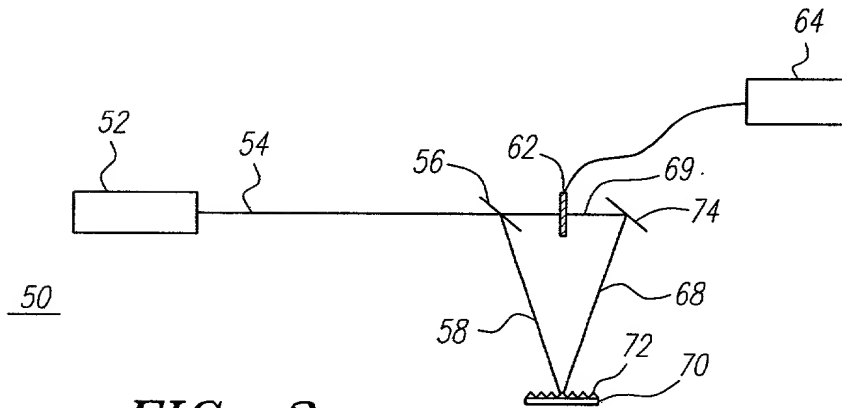
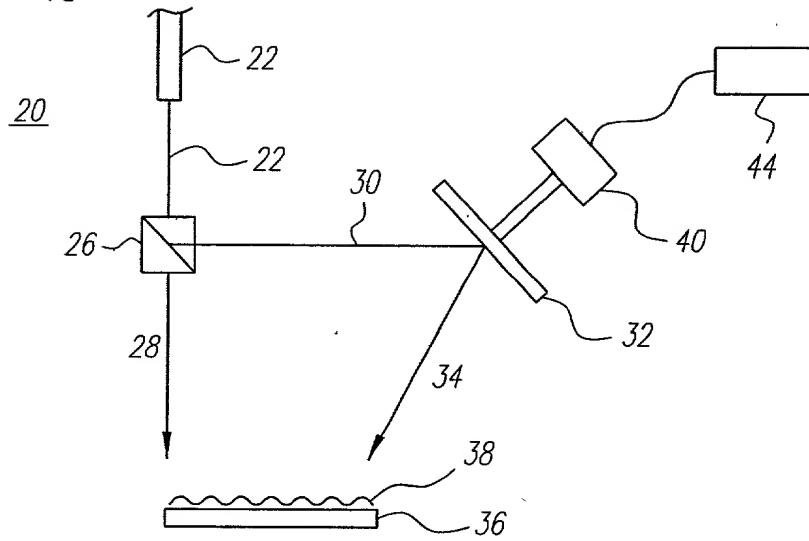
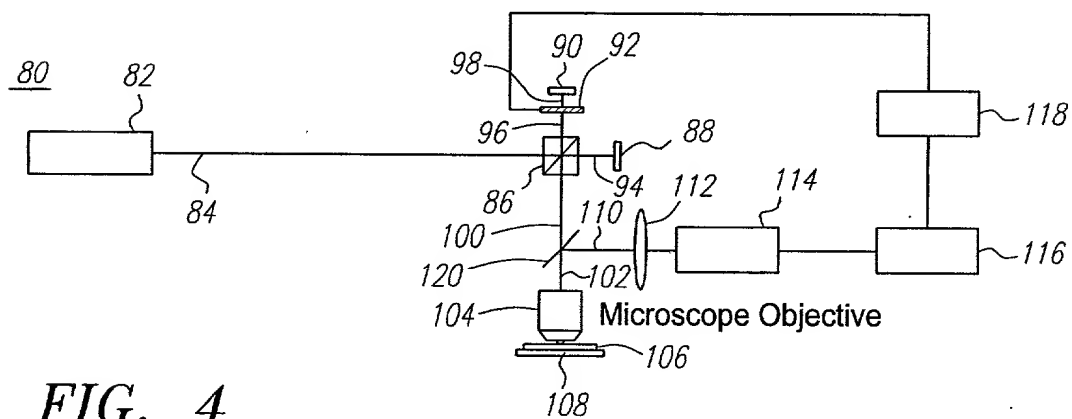
ϵ_B = Dielectric constant of background medium

ϵ = Dielectric constant of particle

I = Light intensity (W/cm^2)

∇ = Spatial derivative

FIG. 1

**FIG. 2****FIG. 3****FIG. 4**

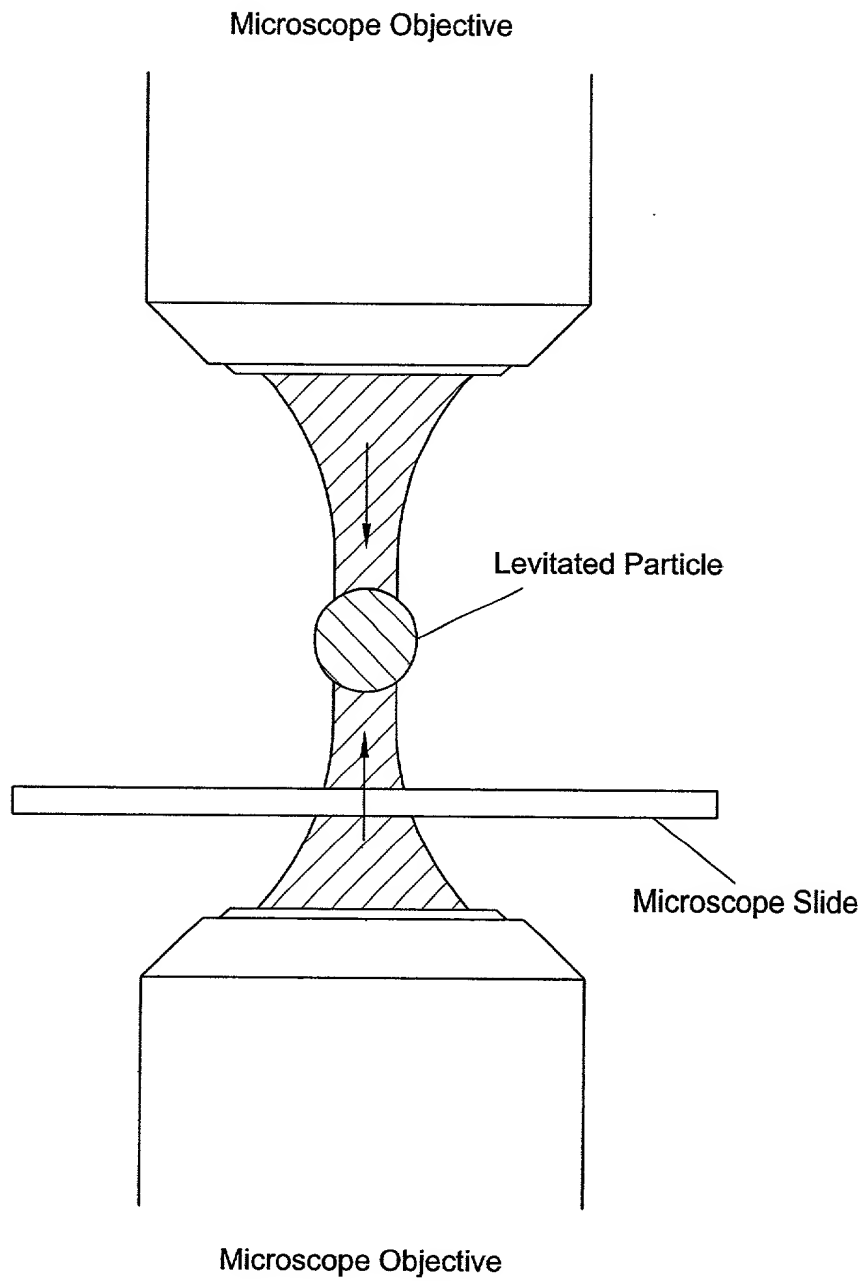


FIG. 4A

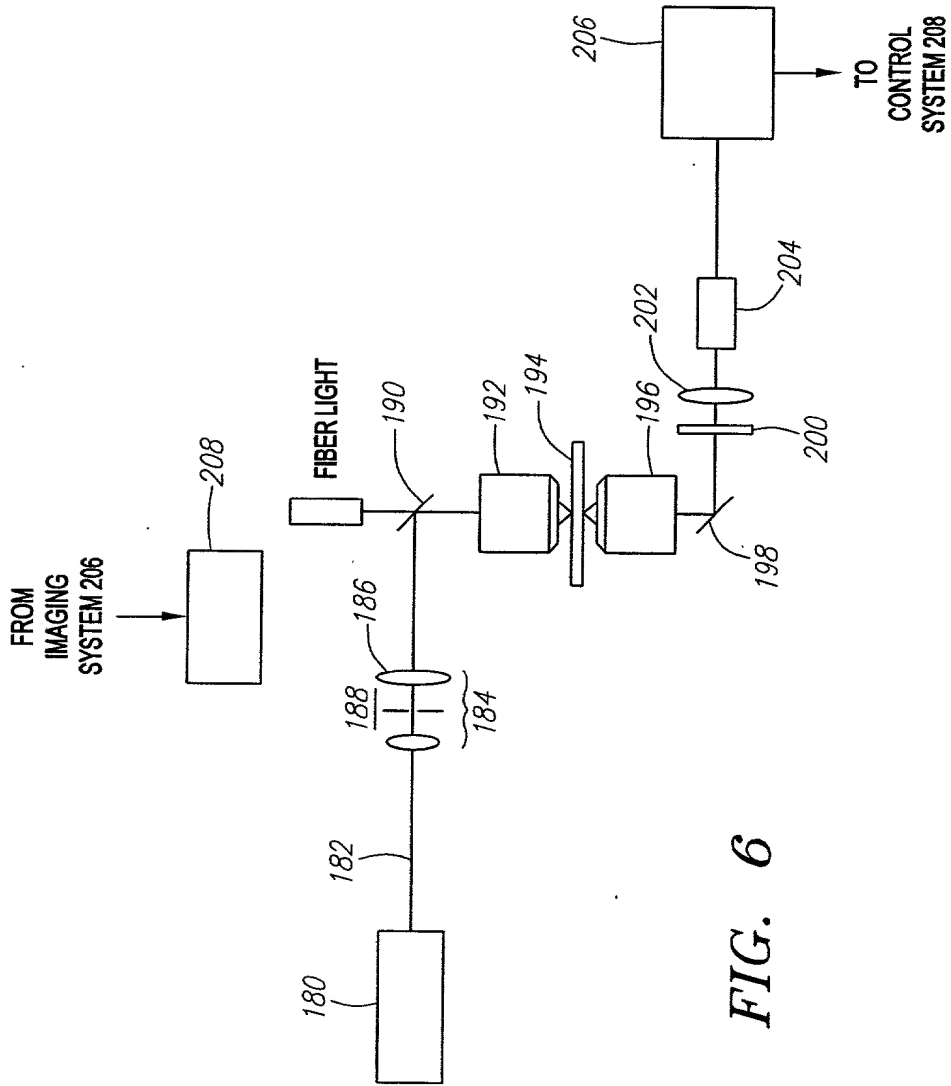


FIG. 6

FIG. 7

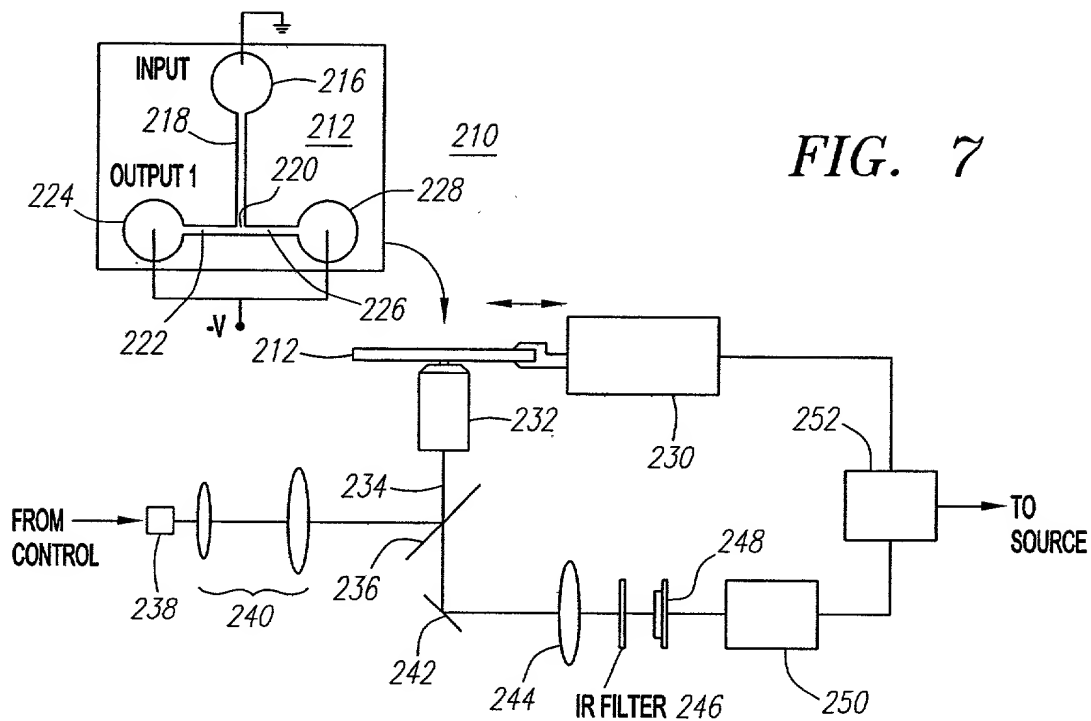
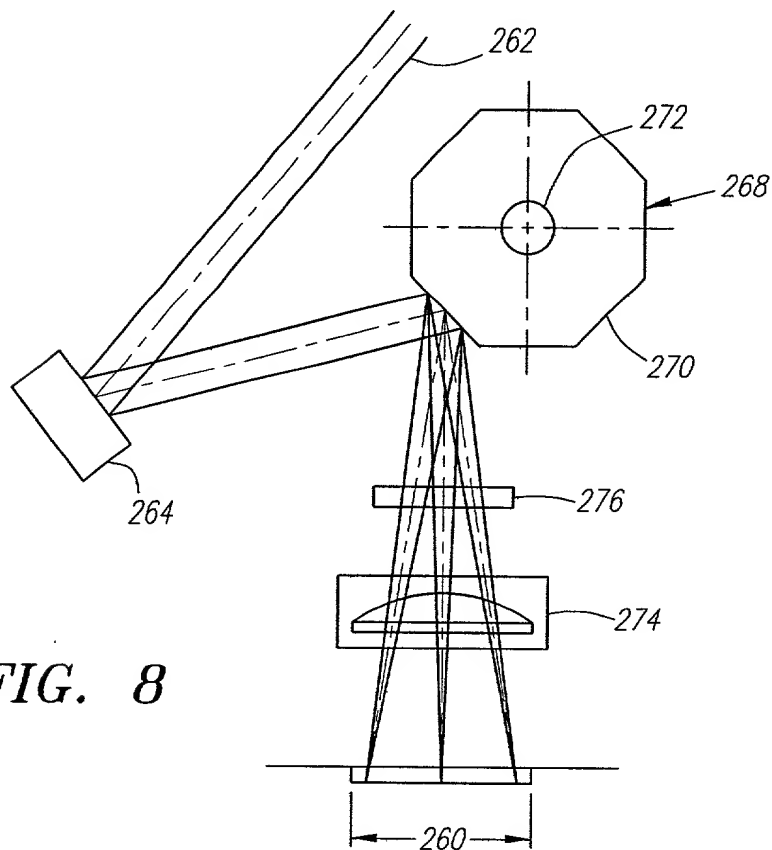


FIG. 8



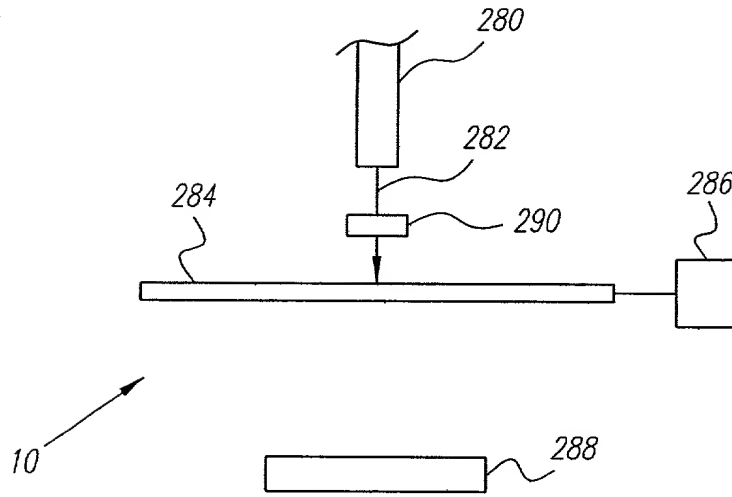


FIG. 9A

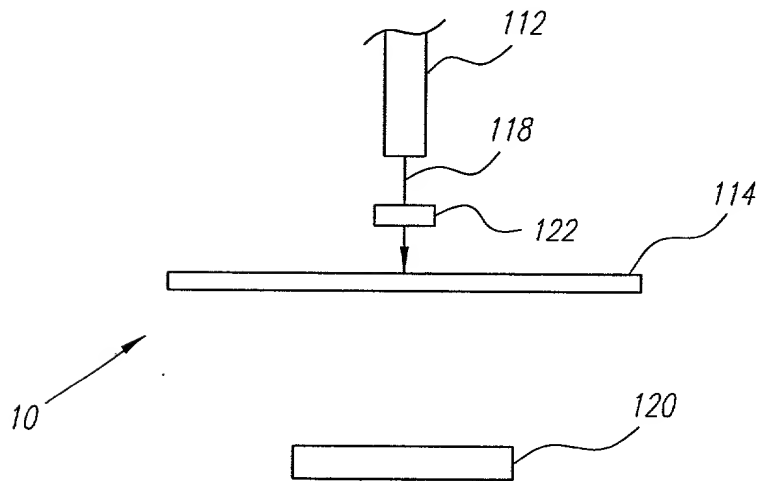


FIG. 9B

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OF THE
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WASHINGTON, D.C. 20535

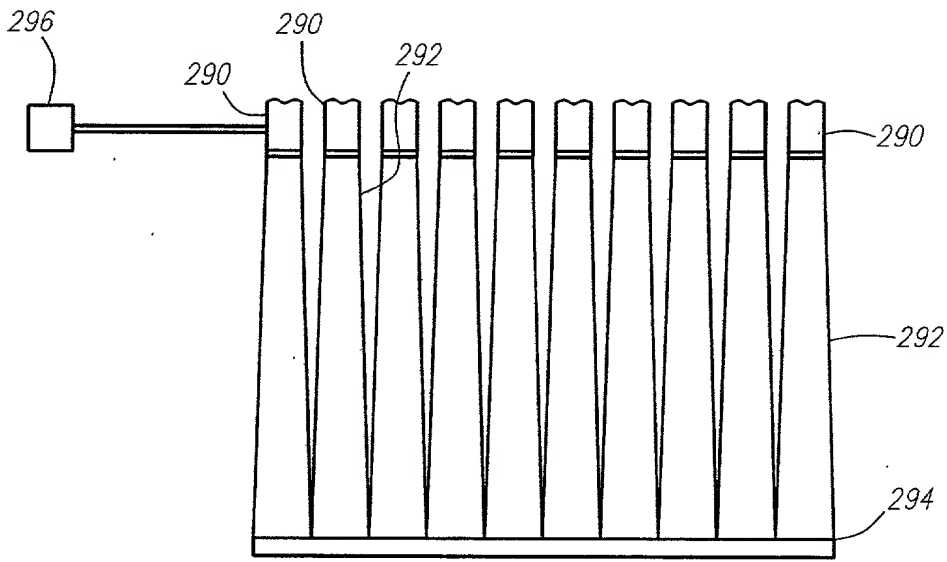
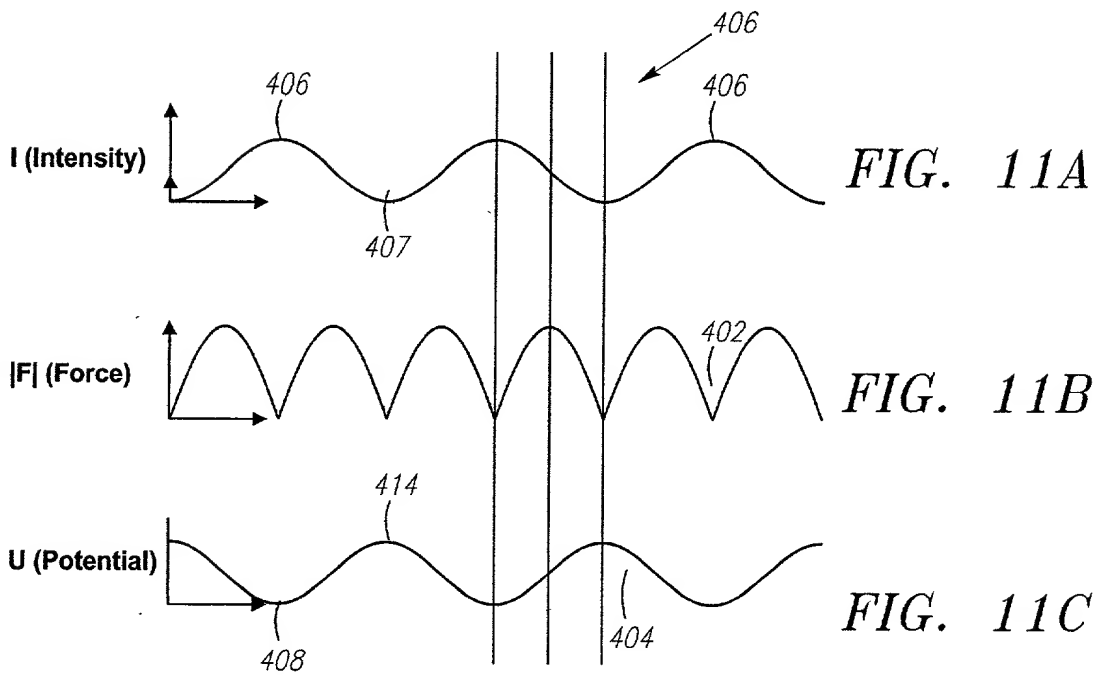


FIG. 10



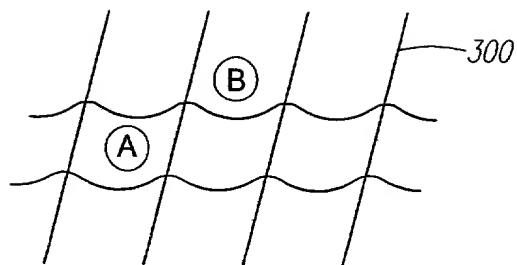
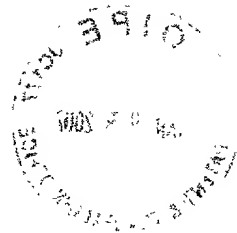


FIG. 12A

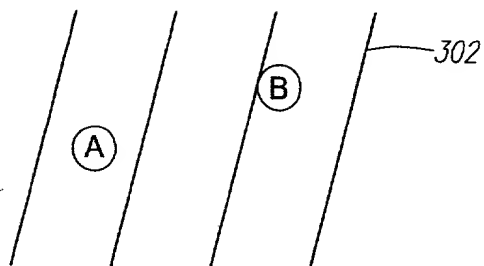


FIG. 12B

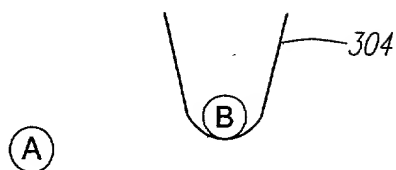


FIG. 12C

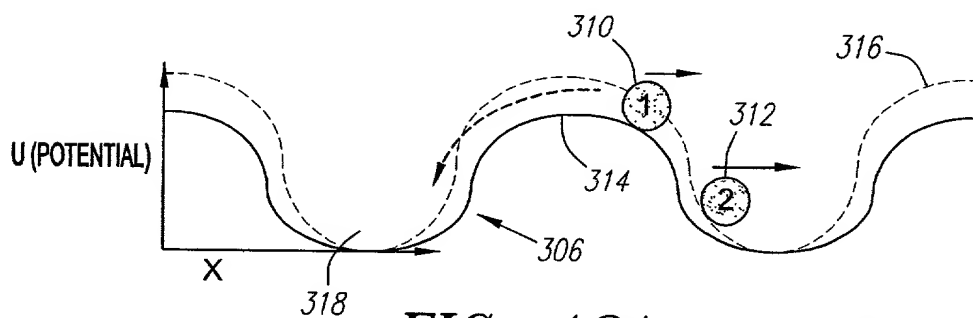


FIG. 13A

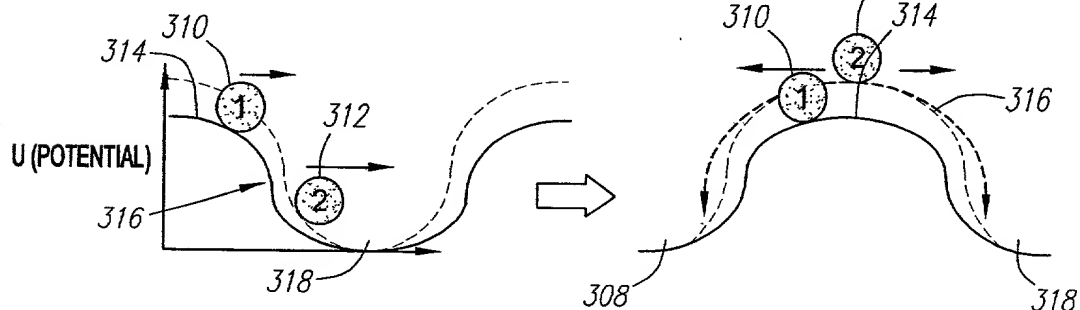


FIG. 13B

FIG. 13C

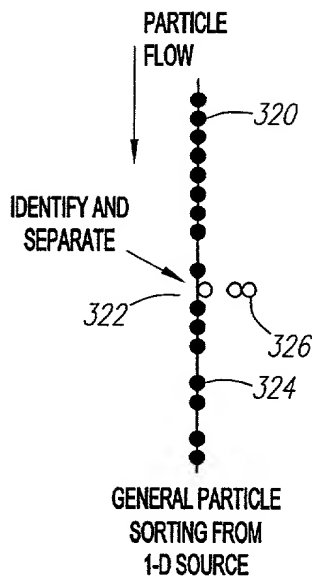
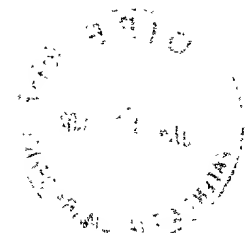


FIG. 14A

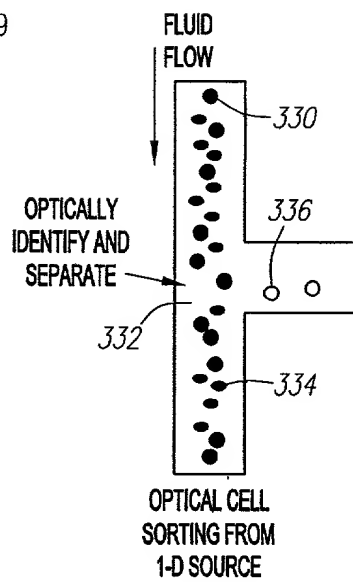


FIG. 14B

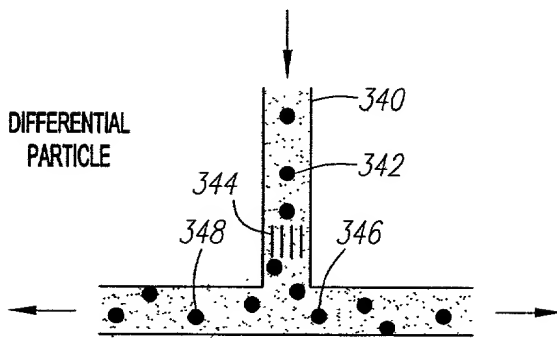


FIG. 15

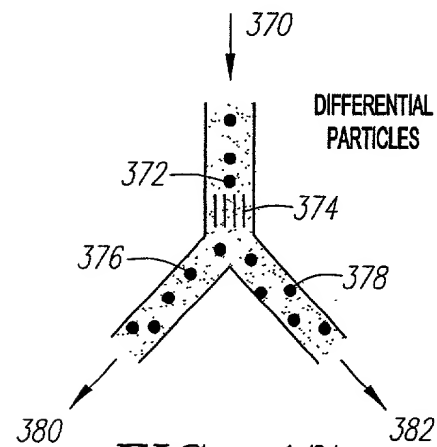


FIG. 17

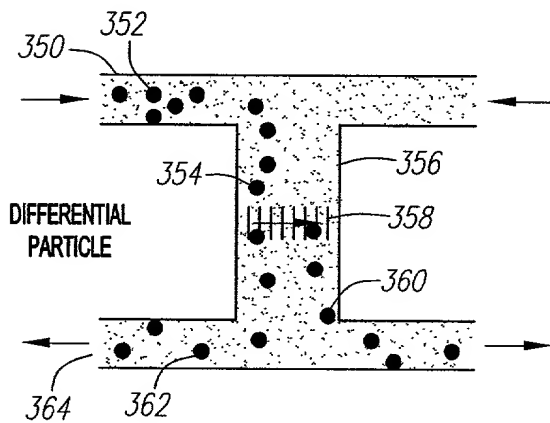


FIG. 16

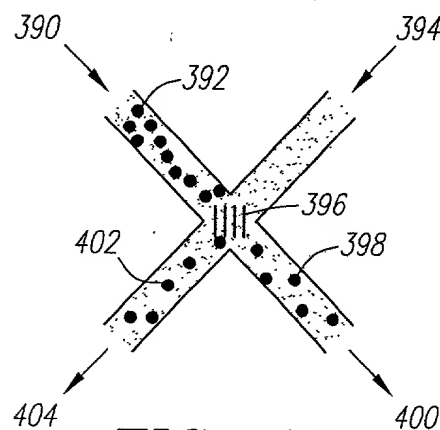


FIG. 18

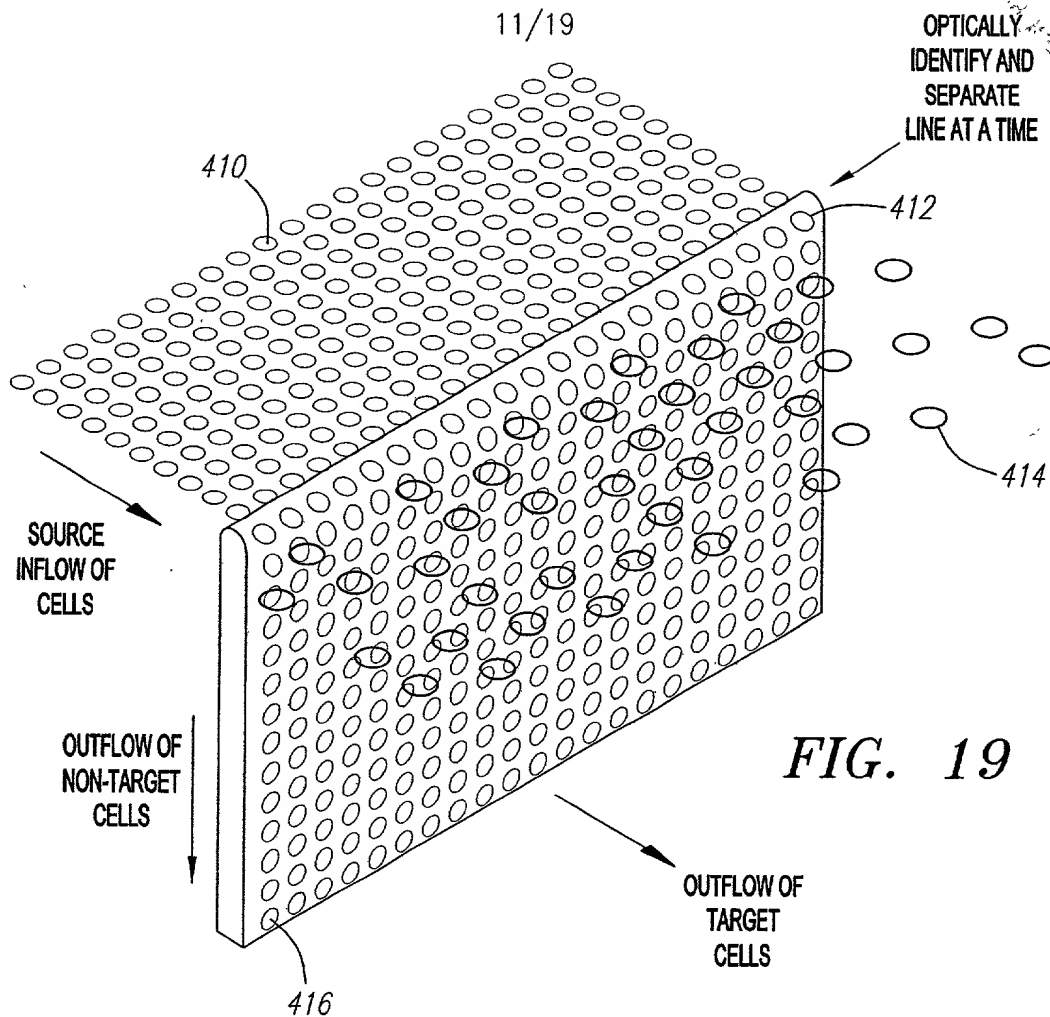


FIG. 19

FIG. 20

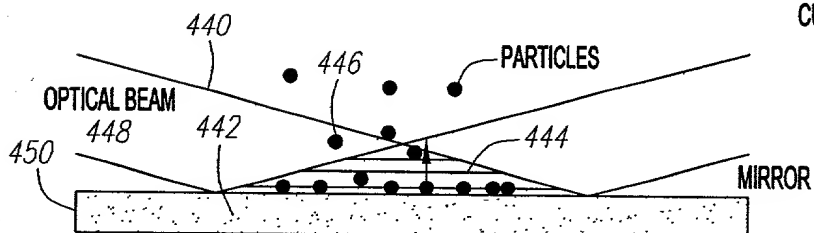
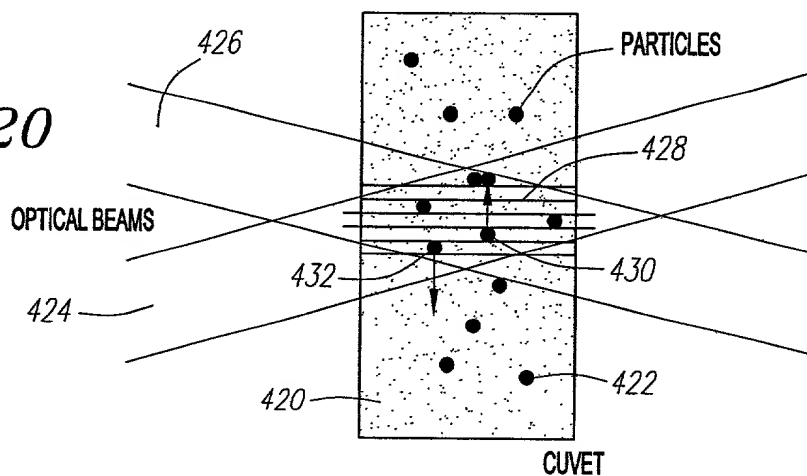


FIG. 21

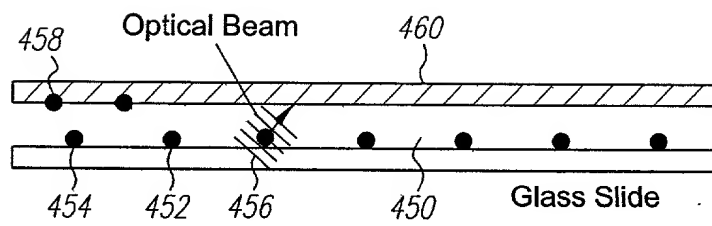


FIG. 22

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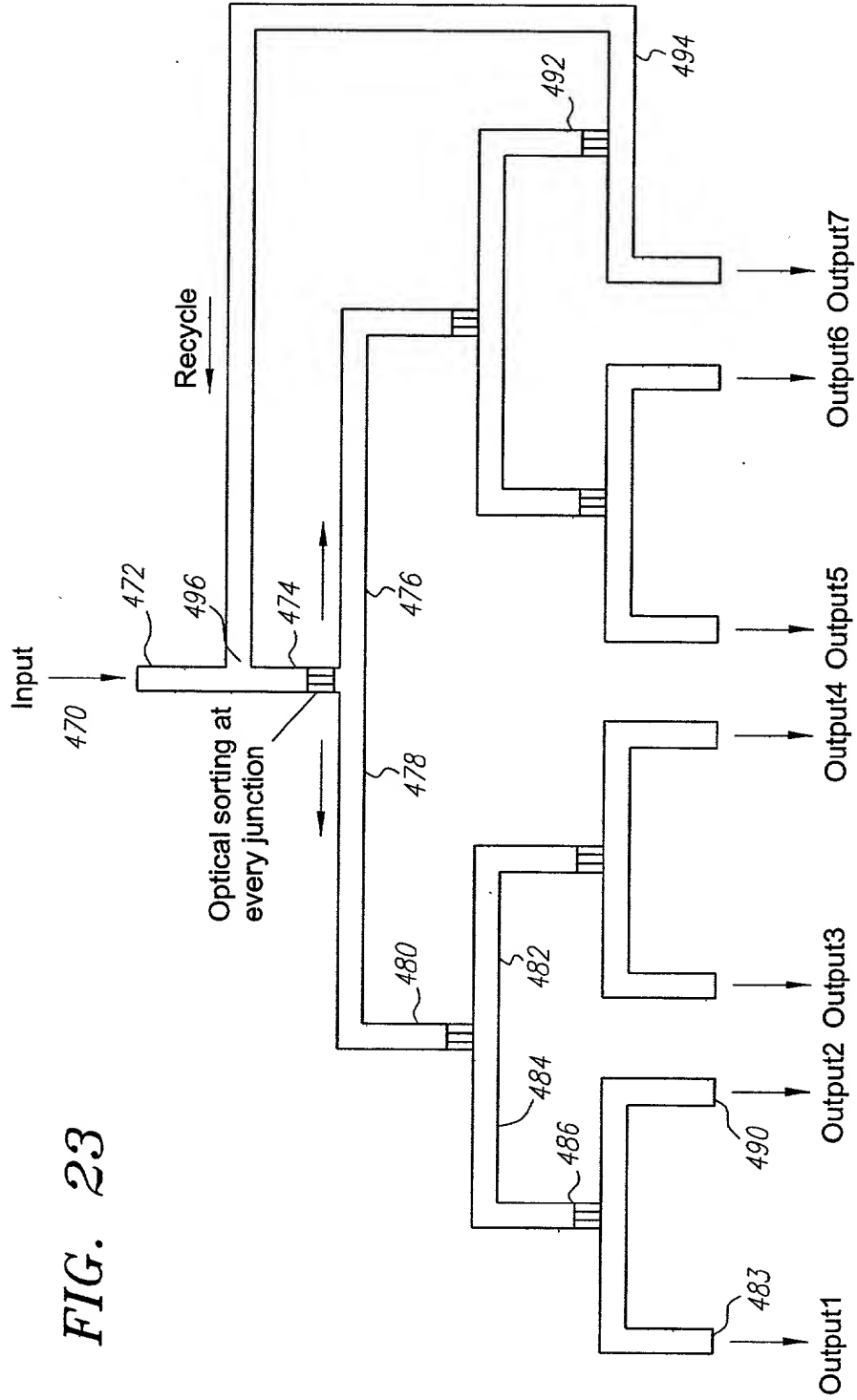


FIG. 23

20070101 09:54:00

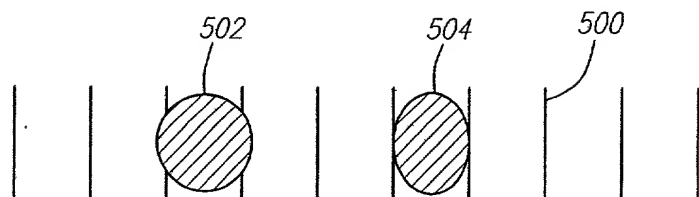


FIG. 24

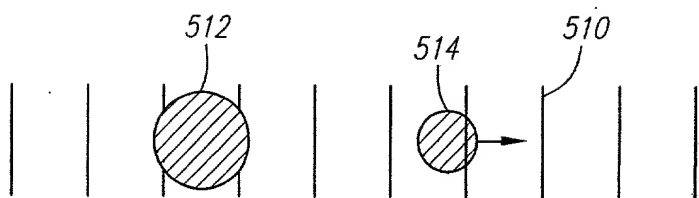
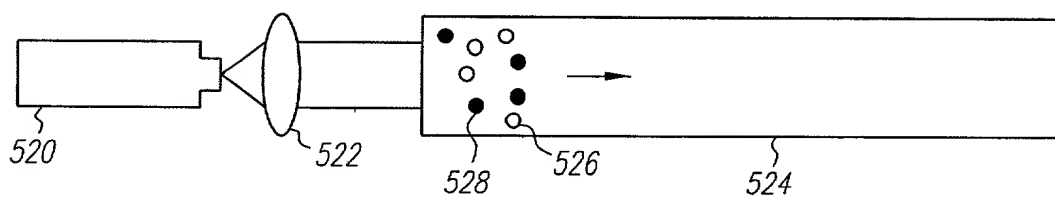


FIG. 25

Before:

SCATTER FORCE SEPARATION



After:

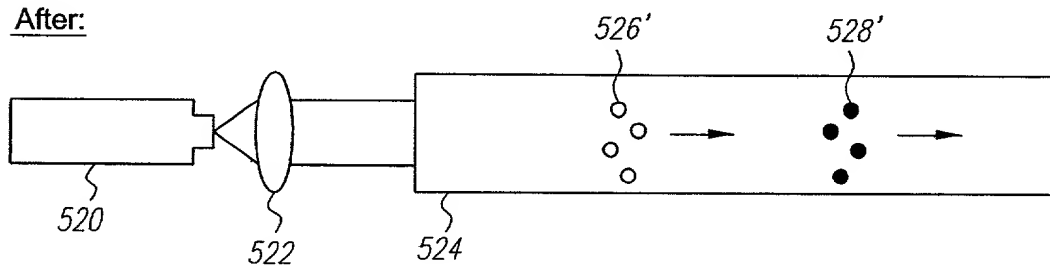


FIG. 26

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FBI/DOJ
FBI/DOJ

15/19

FIG. 27A

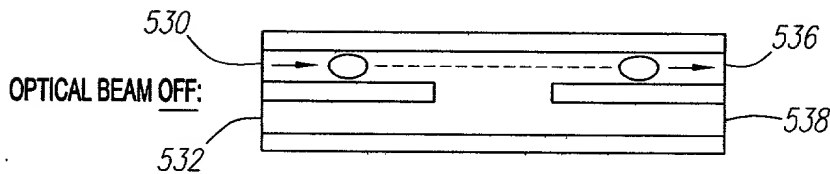
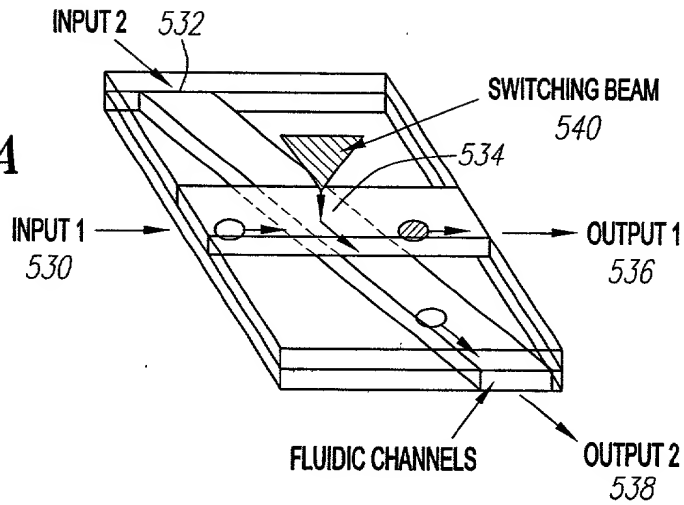


FIG. 27B

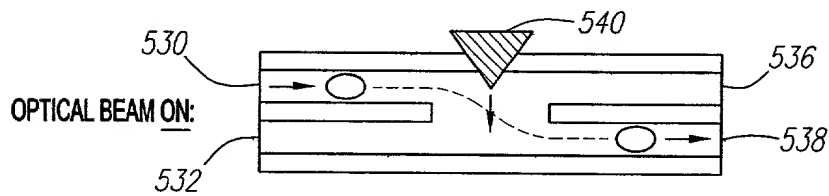


FIG. 27C

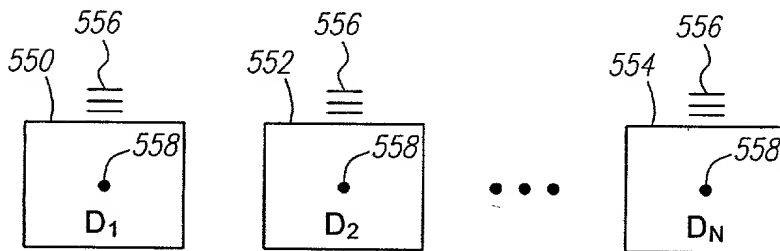
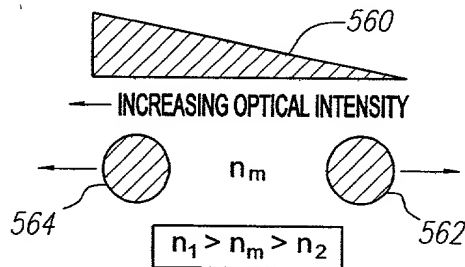
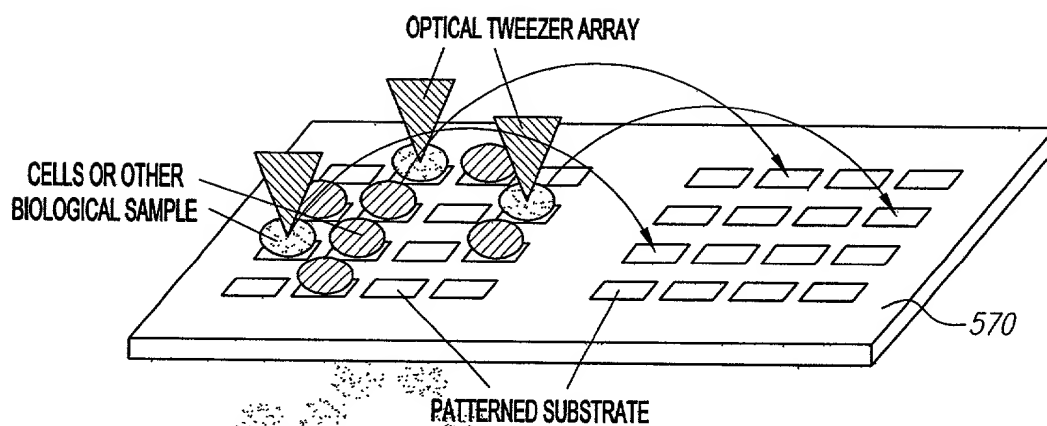
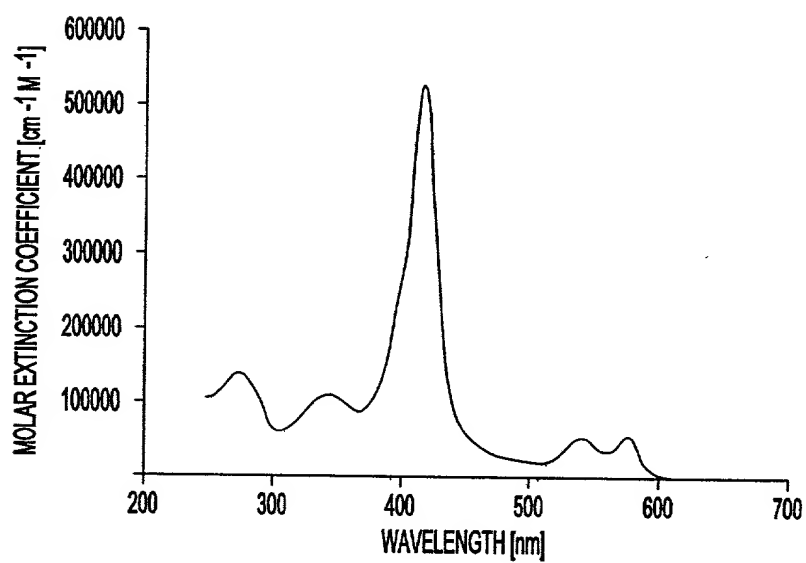


FIG. 28

FIG. 29



*FIG. 30*HEMOGLOBIN - O₂ ABSORPTION SPECTRUM*FIG. 31*

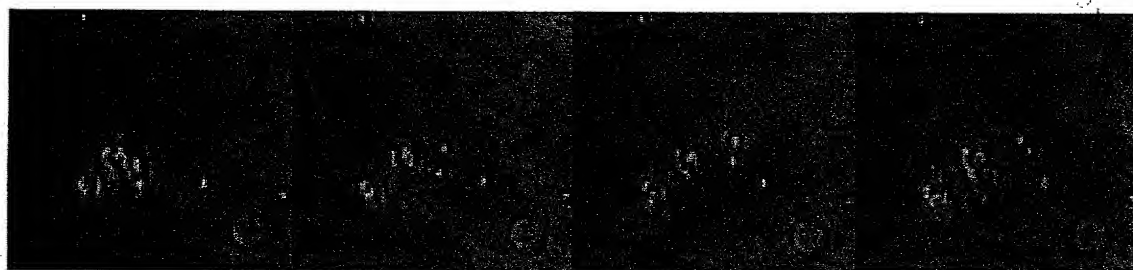


FIG. 32

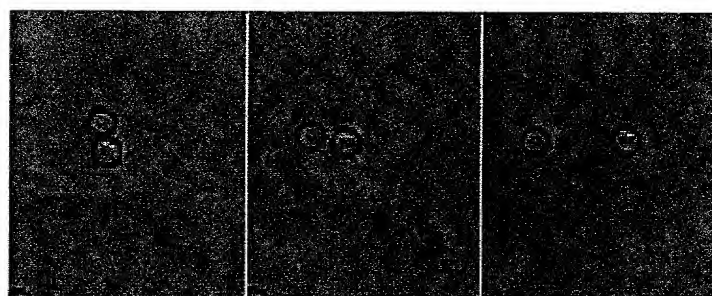
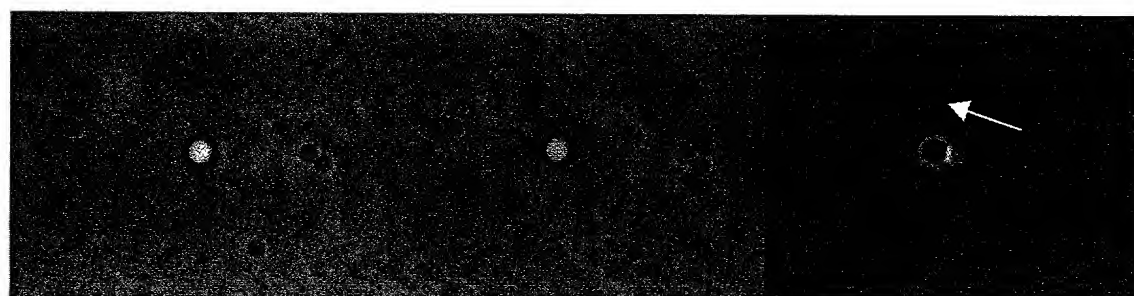


FIG. 33

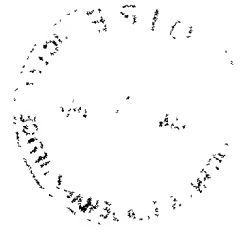


Before

After

Difference

FIG. 34



DISTRIBUTION OF ESCAPE VELOCITIES
 READING TAKEN IN PBS/1% BSA BUFFER
 RAIN-X COATED SLIDE/CYTOP COATED COVERSIP

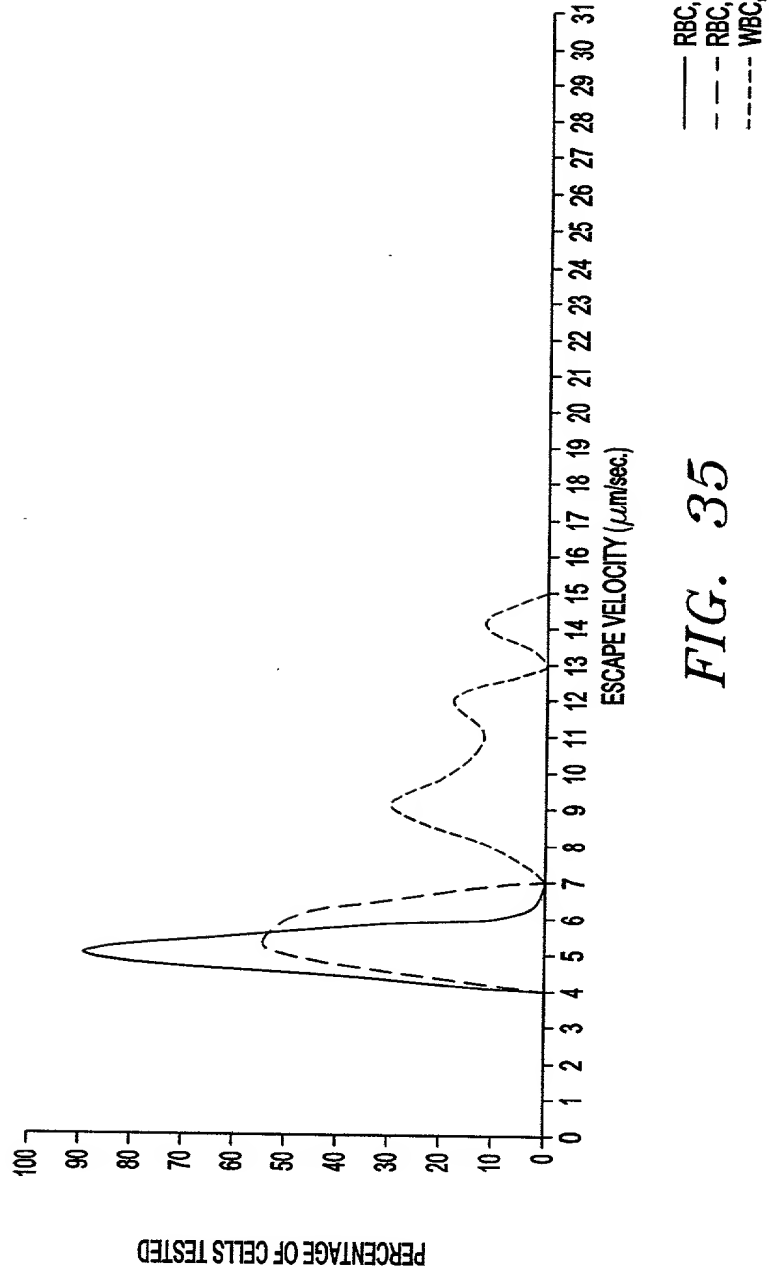


FIG. 35

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DIVISION
WASHINGTON, D.C.

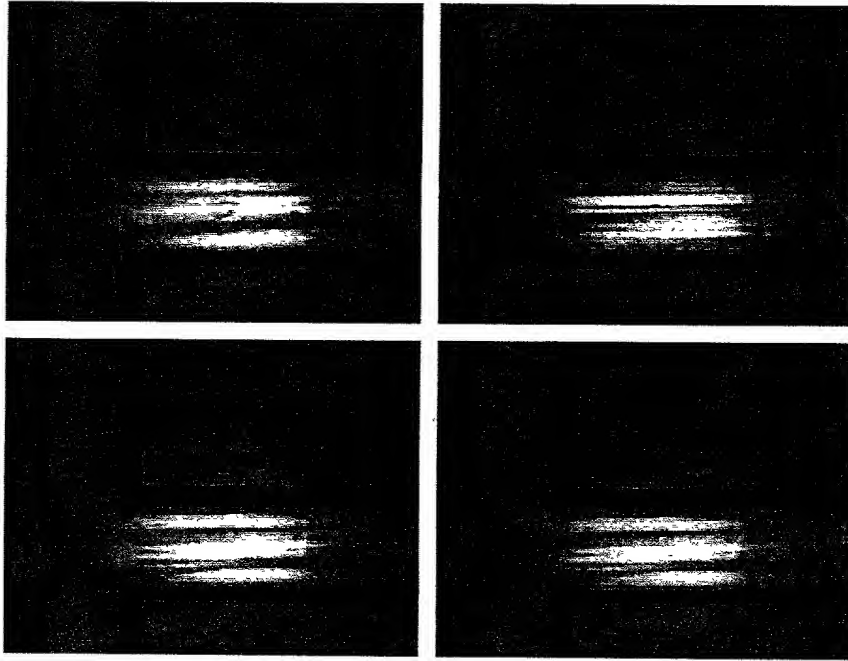


FIG. 36

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